

#2

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/921,143

DATE: 08/13/2001

TIME: 10:53:25

Input Set : A:\PF112P6seqList.txt

Output Set: N:\CRF3\08132001\I921143.raw

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3 <110> APPLICANT: Coleman, Timothy  
 5 <120> TITLE OF INVENTION: Vascular Endothelial Growth Factor-2  
 7 <130> FILE REFERENCE: PF112P6  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/921,143  
 C--> 9 <141> CURRENT FILING DATE: 2001-08-03  
 9 <150> PRIOR APPLICATION NUMBER: 60/223,276  
 10 <151> PRIOR FILING DATE: 2000-08-04  
 12 <160> NUMBER OF SEQ ID NOS: 36  
 14 <170> SOFTWARE: PatentIn version 3.0  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 1674  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: homo sapiens  
 21 <400> SEQUENCE: 1

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26	acctctcgga	cgcgagcccc	gacgcgggcg	aggccacggc	ttatgcaagc	aaagatctgg	180
28	aggagcagtt	acggtctgtg	tccagtgtag	atgaactcat	gactgtactc	taccagaat	240
30	attgaaaaat	gtacaagtgt	cagctaagga	aaggaggtcg	gcaacataac	agagaacagg	300
32	ccaacctcaa	ctcaaggaca	gaagagacta	taaaatttgc	tgcagcacat	tataatacag	360
34	agatcttgaa	aagtattgat	aatgagtggg	gaaagactca	atgcatgcc	cgggaggtgt	420
36	gtatagatgt	ggggaaggag	tttgagtgcg	cgacaaacac	cttctttaaa	cctccatgtg	480
38	tgtccgtcta	cagatgtggg	ggttgctgca	atagtgaggg	gctgcagtgc	atgaacacca	540
40	gcacgagcta	cctcagcaag	acgttatattg	aaattacagt	gcctctctct	caaggcccca	600
42	aaccagtaac	aatcagtttt	gccaatcaca	cttctgcgcg	atgcatgtct	aaactggatg	660
44	tttacagaca	agttcattcc	attattagac	gttccctgcc	agcaacacta	ccacagtgtc	720
46	aggcagcgaa	caagacctgc	cccaccaatt	acatgtggaa	taatcacatc	tgcagatgcc	780
48	tggctcagga	agattttatg	ttttcctcgg	atgctggaga	tgactcaaca	gatggattcc	840
50	atgacatctg	tggaccaaac	aaggagctgg	atgaagagac	ctgtcagtgt	gtctgcagag	900
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56	acacatgcca	gtgtgtatgt	aaaagaacct	gccccagaaa	tcaacccta	aatcctggaa	1080
58	aatgtgcctg	tgaatgtaca	gaaagtccac	agaaatgctt	gttaaaagga	aagaagtcc	1140
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68	aaagtctgtc	tttccatgaa	catgtggata	actttacaga	aatggactgg	agctcatctg	1440
70	caaaaggcct	cttgtaaaga	ctggttttct	gccaatgacc	aaacagccaa	gattttcctc	1500
72	ttgtgatttc	tttaaaagaa	tgactatata	atttatttcc	actaaaaata	ttgtttctgc	1560
74	attcatTTTT	atagcaacaa	caattggtaa	aactcactgt	gatcaatatt	tttatatcat	1620
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82	<213>	ORGANISM: homo sapiens					
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87 1 5 10 15
89 Ala Leu Leu Pro Gly Pro Arg Glu Ala Pro Ala Ala Ala Ala Phe
90 20 25 30
92 Glu Ser Gly Leu Asp Leu Ser Asp Ala Glu Pro Asp Ala Gly Glu Ala
93 35 40 45
95 Thr Ala Tyr Ala Ser Lys Asp Leu Glu Glu Gln Leu Arg Ser Val Ser
96 50 55 60
98 Ser Val Asp Glu Leu Met Thr Val Leu Tyr Pro Glu Tyr Trp Lys Met
99 65 70 75 80
101 Tyr Lys Cys Gln Leu Arg Lys Gly Gly Trp Gln His Asn Arg Glu Gln
102 85 90 95
104 Ala Asn Leu Asn Ser Arg Thr Glu Glu Thr Ile Lys Phe Ala Ala Ala
105 100 105 110
107 His Tyr Asn Thr Glu Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys
108 115 120 125
110 Thr Gln Cys Met Pro Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe
111 130 135 140
113 Gly Val Ala Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Ser Val Tyr
114 145 150 155 160
116 Arg Cys Gly Gly Cys Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr
117 165 170 175
119 Ser Thr Ser Tyr Leu Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu
120 180 185 190
122 Ser Gln Gly Pro Lys Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser
123 195 200 205
125 Cys Arg Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile
126 210 215 220
128 Ile Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn
129 225 230 235 240
131 Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys
132 245 250 255
134 Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp Ala Gly Asp Asp Ser
135 260 265 270
137 Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn Lys Glu Leu Asp Glu
138 275 280 285
140 Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu Arg Pro Ala Ser Cys
141 290 295 300
143 Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys Gln Cys Val Cys Lys
144 305 310 315 320
146 Asn Lys Leu Phe Pro Ser Gln Cys Gly Ala Asn Arg Glu Phe Asp Glu
147 325 330 335
149 Asn Thr Cys Gln Cys Val Cys Lys Arg Thr Cys Pro Arg Asn Gln Pro
150 340 345 350
152 Leu Asn Pro Gly Lys Cys Ala Cys Glu Cys Thr Glu Ser Pro Gln Lys
153 355 360 365
155 Cys Leu Leu Lys Gly Lys Lys Phe His His Gln Thr Cys Ser Cys Tyr
156 370 375 380
158 Arg Arg Pro Cys Thr Asn Arg Gln Lys Ala Cys Glu Pro Gly Phe Ser

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168 <211> LENGTH: 1526
169 <212> TYPE: DNA
170 <213> ORGANISM: homo sapiens
172 <400> SEQUENCE: 3
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175 agatgaactc atgactgtac tctaccaga atattggaaa atgtacaagt gtcagctaag      120
177 gaaaggagggc tggcaacata acagagaaca ggccaacctc aactcaagga cagaagagac      180
179 tataaaatatt gctgcagcac attataatac agagatcttg aaaagtattg ataatgagtg      240
181 gagaaagact caatgcatgc cacgggaggt gtgtatagat gtggggaagg agtttgagtg      300
183 cgcgacaaac accttcttta aacctccatg tgtgtccgtc tacagatgtg ggggttgctg      360
185 caatagttag gggctgcagt gcatgaacac cagcacgagc tacctcagca agacgttatt      420
187 tgaaattaca gtgcctctct ctcaaggccc caaacagta acaatcagtt ttgccaatca      480
189 cacttctctg cgatgcatgt ctaaaactgga tgtttacaga caagttcatt ccattattag      540
191 acgttccctg ccagcaacac taccacagtg tcaggcagcg aacaagacct gcccaccaa      600
193 ttacatgtgg aataatcaca tctgcagatg cctggctcag gaagatttta tgttttctc      660
195 ggatgctgga gatgactcaa cagatggatt ccatgacatc tgtggacca acaaggagct      720
197 ggatgaagag acctgtcagt gtgtctgcag agcggggctt cggcctgcca gctgtggacc      780
199 ccacaaagaa ctagacagaa actcatgccg gtgtgtctgt aaaaacaaac tcttccccag      840
201 ccaatgtggg gccaacccag aatttgatga aaacacatgc cagtgtgtat gtaaaagaac      900
203 ctgccccaga aatcaacccc taaatcctgg aaaatgtgcc tgtgaatgta cagaaagtcc      960
205 acagaaatgc ttgttaaaag gaaagaagtt ccaccaccaa acatgcagct gttacagacg     1020
207 gccatgtacg aaccgccaga aggcttgtga gccaggattt tcatatagtg aagaagtgtg     1080
209 tcgttgtgtc ctttcatatt ggcaaagacc acaaatgagc taagattgta ctgttttcca     1140
211 gttcatcgat tttctattat ggaaaactgt gttgccacag tagaactgtc tgtgaacaga     1200
213 gagacccttg tgggtccatg ctaacaaaga caaaagtctg tctttcctga accatgtgga     1260
215 taactttaca gaaatggact ggagctcatc tgcaaaaggc ctcttgtaaa gactggtttt     1320
217 ctgccaatga ccaaacagcc aagattttcc tcttgatgatt tctttaaaag aatgactata     1380
219 taatttattt ccactaaaaa tattgtttct gcattcattt ttatagcaac aacaattggg     1440
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228 <212> TYPE: PRT
229 <213> ORGANISM: homo sapiens
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237          20          25          30
239 Arg Thr Glu Glu Thr Ile Lys Phe Ala Ala Ala His Tyr Asn Thr Glu
240          35          40          45
242 Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys Thr Gln Cys Met Pro
243          50          55          60
245 Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe Gly Val Ala Thr Asn

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246 65          70          75          80
248 Thr Phe Phe Lys Pro Cys Val Ser Val Tyr Arg Cys Gly Gly Cys
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252          100          105          110
254 Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu Ser Gln Gly Pro Lys
255          115          120          125
257 Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser Cys Arg Cys Met Ser
258          130          135          140
260 Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile Ile Arg Arg Ser Leu
261 145          150          155          160
263 Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn Lys Thr Cys Pro Thr
264          165          170          175
266 Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys Leu Ala Gln Glu Asp
267          180          185          190
269 Phe Met Phe Ser Ser Asp Ala Gly Asp Asp Ser Thr Asp Gly Phe His
270          195          200          205
272 Asp Ile Cys Gly Pro Asn Lys Glu Leu Asp Glu Glu Thr Cys Gln Cys
273          210          215          220
275 Val Cys Arg Ala Gly Leu Arg Pro Ala Ser Cys Gly Pro His Lys Glu
276 225          230          235          240
278 Leu Asp Arg Asn Ser Cys Gln Cys Val Cys Lys Asn Lys Leu Phe Pro
279          245          250          255
281 Ser Gln Cys Gly Ala Asn Arg Glu Phe Asp Glu Asn Thr Cys Gln Cys
282          260          265          270
284 Val Cys Lys Arg Thr Cys Pro Arg Asn Gln Pro Leu Asn Pro Gly Lys
285          275          280          285
287 Cys Ala Cys Glu Cys Thr Glu Ser Pro Gln Lys Cys Leu Leu Lys Gly
288          290          295          300
290 Lys Lys Phe His His Gln Thr Cys Ser Cys Tyr Arg Arg Pro Cys Thr
291 305          310          315          320
293 Asn Arg Gln Lys Ala Cys Glu Pro Gly Phe Ser Tyr Ser Glu Glu Val
294          325          330          335
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297          340          345          350
299 <210> SEQ ID NO: 5
300 <211> LENGTH: 211
301 <212> TYPE: PRT
302 <213> ORGANISM: homo sapiens
304 <400> SEQUENCE: 5
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310          20          25          30
312 Leu Ala Arg Ser Gln Ile His Ser Ile Arg Asp Leu Gln Arg Leu Leu
313          35          40          45
315 Glu Ile Asp Ser Val Gly Ser Glu Asp Ser Leu Asp Thr Ser Leu Arg
316          50          55          60
318 Ala His Gly Val His Ala Thr Lys His Val Pro Glu Lys Arg Pro Leu

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319 65              70              75              80
321 Pro Ile Arg Arg Lys Arg Ser Ile Glu Glu Ala Val Pro Ala Val Cys
322              85              90              95
324 Lys Thr Arg Thr Val Ile Tyr Glu Ile Pro Arg Ser Gln Val Asp Pro
325              100              105              110
327 Thr Ser Ala Asn Phe Leu Ile Trp Pro Pro Cys Val Glu Val Lys Arg
328              115              120              125
330 Cys Thr Gly Cys Cys Asn Thr Ser Ser Val Lys Cys Gln Pro Ser Arg
331              130              135              140
333 Val His His Arg Ser Val Lys Val Ala Lys Val Glu Tyr Val Arg Lys
334 145              150              155              160
336 Lys Pro Lys Leu Lys Glu Val Gln Val Arg Leu Glu Glu His Leu Glu
337              165              170              175
339 Cys Ala Cys Ala Thr Thr Ser Leu Asn Pro Asp Tyr Arg Glu Glu Asp
340              180              185              190
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346              210
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349 <211> LENGTH: 241
350 <212> TYPE: PRT
351 <213> ORGANISM: homo sapiens
353 <400> SEQUENCE: 6
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359              20              25              30
361 Leu Ser Asp His Ser Ile Arg Ser Phe Asp Asp Leu Gln Arg Leu Leu
362              35              40              45
364 His Gly Asp Pro Gly Glu Glu Asp Gly Ala Glu Leu Asp Leu Asn Met
365              50              55              60
367 Thr Arg Ser His Ser Gly Gly Glu Leu Glu Ser Leu Ala Arg Gly Arg
368 65              70              75              80
370 Arg Ser Leu Gly Ser Leu Thr Ile Ala Glu Pro Ala Met Ile Ala Glu
371              85              90              95
373 Cys Lys Thr Arg Thr Glu Val Phe Glu Ile Ser Arg Arg Leu Ile Asp
374              100              105              110
376 Arg Thr Asn Ala Asn Phe Leu Val Trp Pro Pro Cys Val Glu Val Gln
377              115              120              125
379 Arg Cys Ser Gly Cys Cys Asn Asn Arg Asn Val Gln Cys Arg Pro Thr
380              130              135              140
382 Gln Val Gln Leu Arg Pro Val Gln Val Arg Lys Ile Glu Ile Val Arg
383 145              150              155              160
385 Lys Lys Pro Ile Phe Lys Lys Ala Thr Val Thr Leu Glu Asp His Leu
386              165              170              175
388 Ala Cys Lys Cys Glu Thr Val Ala Ala Ala Arg Pro Val Thr Arg Ser
389              180              185              190
391 Pro Gly Gly Ser Gln Glu Gln Arg Ala Lys Thr Pro Gln Thr Arg Val

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/921,143

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Input Set : A:\PF112P6seqList.txt

Output Set: N:\CRF3\08132001\I921143.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8